

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 09/852,958
Source: JFW/6
Date Processed by STIC: 12/30/2005

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 12/30/2005

PATENT APPLICATION: US/09/852,958

TIME: 13:01:04

Input Set : A:\BTH01006.txt

Output Set: N:\CRF4\12302005\I852958.raw

3 <110> APPLICANT: Sirbasku, Davis
 5 <120> TITLE OF INVENTION: Compositions and Methods for Demonstrating
 Secretory Immune
 6 System Regulation of Steroid Hormone Responsive Cancer Cell
 7 Growth
 9 <130> FILE REFERENCE: BTH0:1006
 11 <140> CURRENT APPLICATION NUMBER: 09/852,958
 12 <141> CURRENT FILING DATE: 2001-05-10
 14 <150> PRIOR APPLICATION NUMBER: 60/203,314
 15 <151> PRIOR FILING DATE: 2000-05-10
 17 <150> PRIOR APPLICATION NUMBER: 60/208,348
 18 <151> PRIOR FILING DATE: 2000-05-31
 20 <150> PRIOR APPLICATION NUMBER: 60/208,111
 21 <151> PRIOR FILING DATE: 2000-05-31
 23 <150> PRIOR APPLICATION NUMBER: 60/229,071
 24 <151> PRIOR FILING DATE: 2000-08-30
 26 <150> PRIOR APPLICATION NUMBER: 60/231,273
 27 <151> PRIOR FILING DATE: 2000-09-08
 29 <160> NUMBER OF SEQ ID NOS: 26
 31 <170> SOFTWARE: PatentIn version 3.3
 33 <210> SEQ ID NO: 1
 34 <211> LENGTH: 7
 35 <212> TYPE: PRT
 36 <213> ORGANISM: Homo sapiens
 39 <220> FEATURE:
 40 <221> NAME/KEY: misc_feature
 41 <222> LOCATION: (3)..(3)
 42 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 44 <220> FEATURE:
 45 <221> NAME/KEY: misc_feature
 46 <222> LOCATION: (5)..(6)
 47 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 49 <400> SEQUENCE: 1
 W--> 51 Ile Leu Xaa Tyr Xaa Xaa Leu
 52 1 5
 55 <210> SEQ ID NO: 2
 56 <211> LENGTH: 7
 57 <212> TYPE: PRT
 58 <213> ORGANISM: homo sapiens
 61 <220> FEATURE:
 62 <221> NAME/KEY: misc_feature
 63 <222> LOCATION: (3)..(3)
 64 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 66 <220> FEATURE:

(pg-6)

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67 <221> NAME/KEY: misc_feature

68 <222> LOCATION: (5)..(6)

69 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid

71 <400> SEQUENCE: 2

W--> 73 Val Leu Xaa Tyr Xaa Xaa Leu

74 1 5

77 <210> SEQ ID NO: 3

78 <211> LENGTH: 381

79 <212> TYPE: PRT

80 <213> ORGANISM: homo sapiens

83 <220> FEATURE:

84 <221> NAME/KEY: mat_peptide

85 <222> LOCATION: (1)..(381)

87 <400> SEQUENCE: 3

89 Arg His Thr Arg Gln Gly Trp Ala Leu Arg Pro Val Leu Pro Thr Gln

90 1 5 10 15

93 Ser Ala His Asp Pro Pro Ala Val His Leu Ser Asn Gly Pro Gly Gln

94 20 25 30

97 Glu Pro Ile Ala Val Met Thr Phe Asp Leu Thr Lys Ile Thr Lys Thr

98 35 40 45

101 Ser Ser Ser Phe Glu Val Arg Thr Trp Asp Pro Glu Gly Val Ile Phe

102 50 55 60

105 Tyr Gly Asp Thr Asn Pro Lys Asp Asp Trp Phe Met Leu Gly Leu Arg

106 65 70 75 80

109 Asp Gly Arg Pro Glu Ile Gln Leu His Asn His Trp Ala Gln Leu Thr

110 85 90 95

113 Val Gly Ala Gly Pro Arg Leu Asp Asp Gly Arg Trp His Gln Val Glu

114 100 105 110

117 Val Lys Met Glu Gly Asp Ser Val Leu Leu Glu Val Asp Gly Glu Glu

118 115 120 125

121 Val Leu Arg Leu Arg Gln Val Ser Gly Pro Leu Thr Ser Lys Arg His

122 130 135 140

125 Pro Ile Met Arg Ile Ala Leu Gly Gly Leu Leu Phe Pro Ala Ser Asn

126 145 150 155 160

129 Leu Arg Leu Pro Leu Val Pro Ala Leu Asp Gly Cys Leu Arg Arg Asp

130 165 170 175

133 Ser Trp Leu Asp Lys Gln Ala Glu Ile Ser Ala Ser Ala Pro Thr Ser

134 180 185 190

137 Leu Arg Ser Cys Asp Val Glu Ser Asn Pro Gly Ile Phe Leu Pro Pro

138 195 200 205

141 Gly Thr Gln Ala Glu Phe Asn Leu Arg Asp Ile Pro Gln Pro His Ala

142 210 215 220

145 Glu Pro Trp Ala Phe Ser Leu Asp Leu Gly Leu Lys Gln Ala Ala Gly

146 225 230 235 240

149 Ser Gly His Leu Leu Ala Leu Gly Thr Pro Glu Asn Pro Ser Trp Leu

150 245 250 255

153 Ser Leu His Leu Gln Asp Gln Lys Val Leu Ser Ser Gly Ser Gly

154 260 265 270

157 Pro Gly Leu Asp Leu Pro Leu Val Leu Gly Leu Pro Leu Gln Leu Lys

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Input Set : A:\BTH01006.txt

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158          275          280          285
161 Leu Ser Met Ser Arg Val Val Leu Ser Gln Gly Ser Lys Met Lys Ala
162          290          295          300
165 Leu Ala Leu Pro Pro Leu Gly Leu Ala Pro Leu Leu Asn Leu Trp Ala
166 305          310          315          320
169 Lys Pro Gln Gly Arg Leu Phe Leu Gly Ala Leu Pro Gly Glu Asp Ser
170          325          330          335
173 Ser Thr Ser Phe Cys Leu Asn Gly Leu Trp Ala Gln Gly Gln Arg Leu
174          340          345          350
177 Asp Val Asp Gln Ala Leu Asn Arg Ser His Glu Ile Trp Thr His Ser
178          355          360          365
181 Cys Pro Gln Ser Pro Gly Asn Gly Thr Asp Ala Ser His
182          370          375          380
185 <210> SEQ ID NO: 4
186 <211> LENGTH: 367
187 <212> TYPE: PRT
188 <213> ORGANISM: Oryctolagus cuniculus
190 <400> SEQUENCE: 4
192 Thr Gln Arg Ala Gln Asp Ser Pro Ala Val His Leu Ile Asn Gly Leu
193 1          5          10          15
196 Gly Gln Glu Pro Ile Gln Val Leu Thr Phe Asp Leu Thr Arg Leu Val
197          20          25          30
200 Lys Ala Ser Ser Ser Phe Glu Leu Arg Thr Trp Asp Ser Glu Gly Val
201          35          40          45
204 Ile Phe Tyr Gly Asp Thr Ser Pro Lys Asp Asp Trp Phe Met Leu Gly
205          50          55          60
208 Leu Arg Asp Gly Arg Pro Glu Ile Gln Met His Asn Pro Trp Ala Gln
209 65          70          75          80
212 Leu Thr Val Gly Ala Gly Pro Arg Leu Asp Asp Gly Ser Trp His Gln
213          85          90          95
216 Val His Val Lys Ile Arg Gly Asp Ser Val Leu Leu Glu Val Asp Gly
217          100          105          110
220 Lys Glu Val Leu Arg Leu Ser Gln Val Ser Gly Thr Leu His Asp Lys
221          115          120          125
224 Pro Gln Pro Val Met Lys Leu Ala Val Gly Gly Leu Leu Phe Pro Pro
225          130          135          140
228 Ser Ser Leu Arg Leu Pro Leu Val Pro Ala Leu Asp Gly Cys Leu Arg
229 145          150          155          160
232 Arg Gly Ser Trp Leu Asp Pro Gln Ala Gln Ile Ser Ala Ser Ala His
233          165          170          175
236 Ala Ser Arg Arg Ser Cys Asp Val Glu Leu Gln Pro Gly Ile Phe Phe
237          180          185          190
240 Pro Pro Gly Thr His Ala Glu Phe Ser Leu Gln Asp Ile Pro Gln Pro
241          195          200          205
244 Gln Thr Glu Pro Trp Ala Phe Ser Leu Asp Leu Glu Leu Lys Pro Ser
245          210          215          220
248 Glu Gly Ser Gly Arg Leu Leu Ala Leu Gly Thr Pro Glu Asp Pro Asn
249 225          230          235          240
252 Trp Leu Ser Leu His Leu Gln Asp Gln Lys Val Val Leu Ser Ser Gly

```

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Input Set : A:\BTH01006.txt

Output Set: N:\CRF4\12302005\I852958.raw

```

253          245          250          255
256 Met Glu Pro Gly Leu Asp Leu Pro Leu Ala Trp Gly Leu Pro Leu Gln
257          260          265          270
260 Leu Lys Leu Gly Val Ser Thr Ala Val Leu Ser Gln Gly Ser Lys Lys
261          275          280          285
264 Gln Ala Leu Gly Leu Pro Pro Ser Gly Leu Gly Pro Leu Leu Asn Leu
265          290          295          300
268 Trp Ala Gln Pro Gln Gly Arg Leu Phe Leu Gly Ala Leu Pro Gly Glu
269 305          310          315          320
272 Asp Ser Ser Ala Ser Phe Cys Leu Asp Gly Leu Trp Ala Gln Gly Gln
273          325          330          335
276 Lys Leu Asp Met Asp Lys Ala Leu Asn Arg Ser Gln Asp Ile Trp Thr
277          340          345          350
280 His Ser Cys Pro Ser Ser Pro Gly Asn Gly Thr Asp Thr Ser His
281          355          360          365
284 <210> SEQ ID NO: 5
285 <211> LENGTH: 373
286 <212> TYPE: PRT
287 <213> ORGANISM: Rattus norvegicus
289 <400> SEQUENCE: 5
291 Leu Arg His Ile Asp Pro Ile Gln Ser Ala Gln Asp Ser Pro Ala Lys
292 1          5          10          15
295 Tyr Leu Ser Asn Gly Pro Gly Gln Glu Pro Val Thr Val Leu Thr Ile
296          20          25          30
299 Asp Leu Thr Lys Ile Ser Lys Pro Ser Ser Ser Phe Glu Phe Arg Thr
300          35          40          45
303 Trp Asp Pro Glu Gly Val Ile Phe Tyr Gly Asp Thr Asn Thr Glu Asp
304          50          55          60
307 Asp Trp Phe Met Leu Gly Leu Arg Asp Gly Gln Leu Glu Ile Gln Leu
308 65          70          75          80
311 His Asn Leu Trp Ala Arg Leu Thr Val Gly Phe Gly Pro Arg Leu Asn
312          85          90          95
315 Asp Gly Arg Trp His Pro Val Glu Leu Lys Met Asn Gly Asp Ser Leu
316          100          105          110
319 Leu Leu Trp Val Asp Gly Lys Glu Met Leu Cys Leu Arg Gln Val Ser
320          115          120          125
323 Ala Ser Leu Ala Asp His Pro Gln Leu Ser Met Arg Ile Ala Leu Gly
324          130          135          140
327 Gly Leu Leu Leu Pro Thr Ser Lys Leu Arg Phe Pro Leu Val Pro Ala
328 145          150          155          160
331 Leu Asp Gly Cys Ile Arg Arg Asp Ile Trp Leu Gly His Gln Ala Gln
332          165          170          175
335 Leu Ser Thr Ser Ala Arg Thr Ser Leu Gly Asn Cys Asp Val Asp Leu
336          180          185          190
339 Gln Pro Gly Leu Phe Phe Pro Pro Gly Thr His Ala Glu Phe Ser Leu
340          195          200          205
343 Gln Asp Ile Pro Gln Pro His Thr Asp Pro Trp Thr Phe Ser Leu Glu
344          210          215          220
347 Leu Gly Phe Lys Leu Val Asp Gly Ala Gly Arg Leu Leu Thr Leu Gly

```

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Input Set : A:\BTH01006.txt

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```

348 225                230                235                240
351 Thr Gly Thr Asn Ser Ser Trp Leu Thr Leu His Leu Gln Asp Gln Thr
352                245                250                255
355 Val Val Leu Ser Ser Glu Ala Glu Pro Lys Leu Ala Leu Pro Leu Ala
356                260                265                270
359 Val Gly Leu Pro Leu Gln Leu Lys Leu Asp Val Phe Lys Val Ala Leu
360                275                280                285
363 Ser Gln Gly Pro Lys Met Glu Val Leu Ser Thr Ser Leu Leu Arg Leu
364                290                295                300
367 Ala Ser Leu Trp Arg Leu Trp Ser His Pro Gln Gly His Leu Ser Leu
368 305                310                315                320
371 Gly Ala Leu Pro Gly Glu Asp Ser Ser Ala Ser Phe Cys Leu Ser Asp
372                325                330                335
375 Leu Trp Val Gln Gly Gln Arg Leu Asp Ile Asp Lys Ala Leu Ser Arg
376                340                345                350
379 Ser Gln Asp Ile Trp Thr His Ser Cys Pro Gln Ser Pro Ser Asn Asp
380                355                360                365
383 Thr His Thr Ser His
384                370
387 <210> SEQ ID NO: 6
388 <211> LENGTH: 353
389 <212> TYPE: PRT
390 <213> ORGANISM: Phodopus sungorus
392 <400> SEQUENCE: 6
394 Asn Gly Pro Gly Gln Glu Pro Val Ala Val Met Thr Ile Asp Leu Thr
395 1                5                10                15
398 Gln Met Ser Lys Pro Tyr Ser Ser Phe Glu Phe Arg Thr Leu Asp Pro
399                20                25                30
402 Glu Gly Val Ile Phe Tyr Gly Asp Thr Asn Thr Lys Asp Asp Trp Phe
403                35                40                45
406 Met Leu Gly Leu Arg Asp Gly Gln Leu Glu Ile Gln Met His Asn Pro
407                50                55                60
410 Trp Ala Gln Leu Thr Val Gly Phe Gly Pro Arg Leu Asn Asp Gly Arg
411 65                70                75                80
414 Trp His Gln Val Glu Leu Lys Met Ser Gly Asp Ser Leu Gln Leu Trp
415                85                90                95
418 Val Asp Gly Lys Glu Leu Leu Cys Leu Arg Gln Ile Ser Gly Thr Leu
419                100                105                110
422 Ala Asn Asn Ser Trp Pro Ser Met Arg Ile Ala Leu Gly Gly Leu Leu
423                115                120                125
426 Leu Pro Thr Ser Ser Leu Arg Phe Pro Leu Val Pro Ala Leu Asp Gly
427                130                135                140
430 Cys Leu Arg Arg Asp Thr Trp Leu Gly His Gln Val His Leu Ser Pro
431 145                150                155                160
434 Ser Ala Pro Asn Leu Gly Asn Cys Asp Val Asp Leu Gln Pro Gly Leu
435                165                170                175
438 Phe Phe Pro Gln Gly Thr His Ala Glu Phe Ser Leu Gln Asp Ile Pro
439                180                185                190
442 Gln Pro Arg Thr Asp Pro Trp Ser Phe Ser Leu Glu Leu Gly Leu Lys

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/852,958

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Input Set : A:\BTH01006.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 3,5,6
Seq#:2; Xaa Pos. 3,5,6
Seq#:13; Xaa Pos. 5
Seq#:21; Xaa Pos. 5
Seq#:22; Xaa Pos. 6

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/852,958

DATE: 12/30/2005

TIME: 13:01:05

Input Set : A:\BTH01006.txt

Output Set: N:\CRF4\12302005\I852958.raw

L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0